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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/724,771		12/02/2003	Abin Chen	OP-092000333	1791	
46103	7590	12/09/2005		EXAMINER KRAUSE, JUSTIN MITCHELL		
HDSL	ENIC DAT	TI E I ANE				
4331 STEVENS BATTLE LANE FAIRFAX, VA 22033				ART UNIT	PAPER NUMBER	
ŕ				3682		
				DATE MAILED: 12/09/2009	DATE MAILED: 12/09/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

·	Application No.	Applicant(s)			
	10/724,771	CHEN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Justin Krause	3682			
- The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>02 December</u> 2a) This action is FINAL . 2b) This 3) Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ⊠ Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ☒ Claim(s) 1-5 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on <u>02 December 2003</u> is/an Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Ex	re: a)⊠ accepted or b)□ objectod drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa				

Application/Control Number: 10/724,771 Page 2

Art Unit: 3682

DETAILED ACTION

Specification

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

The abstract is currently too long.

2. The disclosure is objected to because of the following informalities: numerous typographical errors. Applicant is advised to proofread and correct the specification to correct minor grammatical issues.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claim 2 and 3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Application/Control Number: 10/724,771 Page 3

Art Unit: 3682

5. Claim 2 recites the limitation "the central axis column" in line 16 of page 7.

There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claim 1, 2 is rejected under 35 U.S.C. 102(e) as being anticipated by Grantz et al (US Patent 6,828,709).

Grantz discloses a hydraulic bearing having:

-An oil chamber (207) including a sidewall extending between an open end (223) and a closed end (221) wherein the closed end is perforated with a through hole, an edge of the sidewall at the open end is partially recessed to form at least one notch (for part 225), and an external surface (226) of the end is partially recessed along an elongate direction to form at least one oil slot aligned with the notch, the recessed external sidewall is further perforated with a through hole (218).

-An o-ring (260) is disposed adjacent to the closed end of the oil chamber, the oring having an aperture aligned with the through hole of the closed end. Application/Control Number: 10/724,771

Art Unit: 3682

-An axial column (202) inserted into the oil chamber through the aperture of the o-ring and the through hole of the closed end.

-An external sleeve (208) for receiving the oil chamber therein.

Regarding claim 2, the central axis column is operative to rotate (Column 3, lines 37-42) within the oil chamber, and the lubricant is capable of being driven to flow upwardly through the notch in the oil slot.

Regarding claim 3, the axial column is configured to prevent lubricant from flowing external to the oil chamber via the through hole of the closed end.

Regarding claim 4, the external sleeve includes a sidewall (see fig 2a) extending between an open end (the end of 221 on the shaft) and closed end (the end of 223 on the shaft).

Regarding claim 5, a the hydraulic bearing further comprises a pad (227) disposed in the external sleeve on the closed end thereof.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

6,583,952 shows a fluid bearing with a recirculating oil chamber.

2003/0143086 shows a fluid bearing with a retaining ring.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin Krause whose telephone number is 571-272-3012. The examiner can normally be reached on Monday - Friday, 7:30-5:30.

Application/Control Number: 10/724,771

Art Unit: 3682

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Ridley can be reached on 571-272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JUK 12/7/05

RICHARD W. RIDLEY

-PRIMARY EXAMINER

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Page 5